



BOROUGH AND PORT OF BARRY

Public Health Department

ANNUAL REPORT
1972

Mary Lennox

B.Sc., M.B., B.Ch., D.P.H., M.F.C.M.

Medical Officer of Health

Port Medical Officer.



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MARY LENNOX

B.Sc., M.B., B.Ch., D.P.H., M.F.C.M.

Medical Officer of Health.

Port Medical Officer.

Public Health Department,
Woodlands House,
Woodlands Road,
BARRY, Glam:
CF6 6EG

Tel. No. BARRY 3342



BARRY BOROUGH COUNCIL
(also acting as the Port Health Authority)

MAYOR

Councillor J.H.TREZISE.

DEPUTY MAYOR

Councillor F.J.COOK.

ALDERMEN

Mrs.K.J.ATKINS.

Mrs.M.R.GILL, J.P.

Mrs.Q.MITCHELL.

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C.T.PRICE, J.P.

B.WILLIAMS.

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H.T.CLEASE.

R.T.A.CORNWALL.

J.B.COTTER.

C.B.DUNKLEY.

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T.J.LEWIS.

J.K.K.MILES.

T.G.THOMPSON.

R.D.WILLIAMS.

W.G.WILLIAMS.

(The above Constitution is as existing at 31st. December, 1972)

HEALTH COMMITTEE

Chairman

Alderman Mrs.K.J.ATKINS.

Vice-Chairman

Councillor R.T.A.CORNWALL.

The Mayor (Councillor J.H.TREZISE)

Alderman D.E.MURDOCH.

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Councillor H.T.CLEASE.

Councillor J.B.COTTER.

Councillor S.EDWARDS.

Councillor C.A.HARKUS.

Councillor H.J.HOLMES.

Councillor W.M.JAMES.

Councillor J.K.K.MILES.

(The above Constitution is as existing at 31st. December, 1972)



THE UNIVERSITY OF CHICAGO
DEPARTMENT OF CHEMISTRY

RESEARCH REPORT

1955

THE STUDY OF THE
KINETICS OF THE
REACTION OF
HYDROGEN PEROXIDE
WITH
SODIUM HYDROGEN SULFATE

BY

JOHN EDWARD HARRIS, JR.
PH.D. 1955
DISSERTATION SUBMITTED TO THE FACULTY OF THE DIVISION OF THE PHYSICAL SCIENCES
IN CANDIDACY FOR THE DEGREE OF DOCTOR OF PHILOSOPHY
DEPARTMENT OF CHEMISTRY

ABSTRACT
The reaction of hydrogen peroxide with sodium hydrogen sulfate has been studied in aqueous solution at various temperatures and concentrations. The reaction is first order with respect to hydrogen peroxide and zero order with respect to sodium hydrogen sulfate. The rate constant increases with increasing temperature and decreasing concentration of sodium hydrogen sulfate. The activation energy of the reaction is 14.5 kcal/mole. The reaction is catalyzed by cuprous ions and is inhibited by cupric ions. The mechanism of the reaction is discussed in terms of the formation of a complex between hydrogen peroxide and sodium hydrogen sulfate.

INTRODUCTION
The reaction of hydrogen peroxide with sodium hydrogen sulfate has been studied in aqueous solution at various temperatures and concentrations. The reaction is first order with respect to hydrogen peroxide and zero order with respect to sodium hydrogen sulfate. The rate constant increases with increasing temperature and decreasing concentration of sodium hydrogen sulfate. The activation energy of the reaction is 14.5 kcal/mole. The reaction is catalyzed by cuprous ions and is inhibited by cupric ions. The mechanism of the reaction is discussed in terms of the formation of a complex between hydrogen peroxide and sodium hydrogen sulfate.

EXPERIMENTAL
Materials
Sodium hydrogen sulfate was prepared by the reaction of sodium hydroxide with sulfuric acid. Hydrogen peroxide was prepared by the reaction of barium peroxide with sulfuric acid. Cuprous ions were prepared by the reaction of cuprous chloride with hydrochloric acid. Cupric ions were prepared by the reaction of cupric sulfate with hydrochloric acid. The solutions were prepared by weighing the appropriate amounts of the reagents and diluting to a known volume with distilled water.

SENIOR PUBLIC HEALTH OFFICERS

Town Clerk and Solicitor:

J. CLEMENTS COLLEY, Ll.B.,(Lond.), L.M.R.T.P.I.

Borough Treasurer:

C.T.McLEOD, F.I.M.T.A., F.R.V.A., D.P.A.

Borough Engineer and Surveyor:

D. BAILEY, C.Eng., F.I.C.E., F.I.Mun.E., A.M.I.H.E.

Public Analyst:

L.E.COLES, B.Pharm., Ph.D., F.P.S., F.R.I.C., M.Ph.A., M.Chem.A.

Medical Officer of Health and Port Medical Officer:

MARY LENNOX, B.Sc., M.B., B.Ch., D.P.H., M.F.C.M.

Deputy Medical Officer of Health and Deputy Port Medical Officer:
(part-time)

M. PROSSER, M.R.C.S., L.R.C.P.

Chief Public Health Inspector (Borough):

J. Barrie JONES, Cert. P.H.I.B., M.A.P.H.I.



THE UNIVERSITY OF CHICAGO

DEPARTMENT OF CHEMISTRY

REPORT OF RESEARCH

ON THE CHEMISTRY OF THE CARBON DIOXIDE SYSTEM

BY

JOHN EDGAR HILL

PH.D. THESIS

Submitted to the Faculty of the Division of the Physical Sciences

in partial fulfillment of the requirements

for the degree of Doctor of Philosophy

CHICAGO, ILLINOIS

1955

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CHICAGO, ILLINOIS 60637

BOROUGH AND PORT OF BARRY

Public Health Department,
Woodlands House,
Woodlands Road,
BARRY, Glam.

To: The Mayor, Alderman and Councillors of the
Barry Borough Council. (also acting as the Port Health Authority)

Mr. Mayor, Ladies and Gentlemen,

I beg to submit my Annual Report for the Borough and Port for
the Year 1972.

The Report in respect of the Borough (pages 4 to 33) has been
prepared on the lines indicated in Circular 15/73 (Welsh Office) whilst
that for the Port complies with Welsh Office letter dated 14th. December, 1972.
(Form Port 20).

The Port Health Section - to be found from page 34 onwards -
is in abbreviated form, full details of the Department's work being contained
in a separate report for the Year 1971.

BOROUGH OF BARRY

Area of Borough: 4,265.6 acres.

Rateable Value:

At 1/4/72 - £1,452,367 (based on a total of 15,742 assessments).

Ascertained product of a 1p. Rate, 1972/73 - £14,198.00

Population:

Registrar-General's estimated Home Population
at Mid-Year, 1972. 41,880

(This estimate has been used for the statistics
shown in this Report)

(Note: "Home Population" figure includes members of the
Armed Forces stationed in the area.)

Vital Statistics:

AREA COMPARABILITY FACTORS (A.C.F.) - These factors are provided by the Registrar-General in respect of birth and death-rates in order to make approximate allowance for the way in which local populations differ in age and sex distribution from England and Wales as a whole.

The local crude rates have to be multiplied by the area factor before they are comparable with the crude rate for England and Wales, or with the corresponding adjusted rate for any other area.

Comparability Factors for Barry for 1972 -

Births.....	1.04
Deaths.....	1.00

Deaths:

Total (All Ages)	502
Rate per 1,000 population (crude).	12.0
Rate per 1,000 population (adjusted by A.C.F.).....	12.0
Ratio of local adjusted rate to national rate.....	0.99

Live Births:

Total.....	625
Rate per 1,000 population (crude).	14.9
Rate per 1,000 population (adjusted by A.C.F.)	15.5
Ratio of local adjusted rate to national rate.....	1.05

Illegitimate live births per cent of total births (live).....	8
Still-births.....	10
Stillbirth rate per 1,000 live and still-births.	16
Total live and still-births.	635
Infant deaths under 1 year.	13

Infant Mortality Rates:

Total infant deaths per 1,000 total live births.....	21
Legitimate infant deaths per 1,000 legitimate live births...	19
Illegitimate infant deaths per 1,000 illegitimate live births.	38

Neo-natal Mortality Rate (deaths under 4 weeks per 1,000 total live births).....	16
Early Neo-natal Mortality Rate (deaths under 1 week per 1,000 total live births).....	16
Perinatal Mortality Rate (still-births and deaths under 1 week combined per 1,000 total live and still-births).....	31
Maternal deaths (including abortion).....	Nil.
Maternal mortality rate per 1,000 total live and still-births..	0.00

The foregoing statistics have been calculated from the following details of Births, Still-births and Deaths, which have been adjusted for inward and outward transfers.

<u>BIRTHS</u>	<u>Male</u>	<u>Female</u>	<u>Total</u>
Live Births (Legitimate)	294	278	572
Live Births (Illegitimate)....	31	22	53
Total.....	325	300	625

<u>STILL-BIRTHS</u>	<u>Male</u>	<u>Female</u>	<u>Total</u>
Still-births (Legitimate)	6	2	8
Still-births (Illegitimate)	1	1	2
Total.....	7	3	10

<u>DEATHS</u>	<u>Male</u>	<u>Female</u>	<u>Total</u>
All Ages.	268	234	502
Under 1 year of age (included above)			
Legitimate.....	7	4	11
Illegitimate....	1	1	2
Under 4 weeks of age (included in the			
"Under 1 year" Group above)			
Legitimate.....	6	2	8
Illegitimate....	1	1	2
Under 1 week of age (included in the			
"Under 4 weeks" Group above)			
Legitimate.....	6	2	8
Illegitimate....	1	1	2

VITAL STATISTICS - TABLES I, II and III

Table I (page 7) sets out the Vital Statistics for the District during the years 1968 - 1972.

Table II (page 7) shows the comparative 1972 Birth Rates and Deaths Rates in respect of England and Wales, the Administrative County of Glamorgan and our own District.

In Table III (page 8) may be found the Vital Statistics, 1972 - for the Administrative County of Glamorgan.

Infant Mortality:

There were 13 deaths of infants under one year of age, ten of which occurred during the neo-natal period (first month of life) (See Tables V and VI) (page 10).

Still-Births:

Ten still-births were notified during the Year, nine being in consultant units and one at home.

VITAL STATISTICS - 1972.

Tables I and II (follow on Page 7)

Table III (Page 8)
(Glamorgan)

Table IV (Page 9)
(Causes of Death -
BARRY M.B.)

Tables V and VI (Page 10)
(Infant Mortality)

VITAL STATISTICS - BARRY - 1968 to 1972. Table I

Year	Live Births		Total Deaths Registered in the District.		Transferable Deaths of Non-Residents registered in the District.	Transferable Deaths of Residents not registered in the District.	Nett Deaths belonging to the District					
	No.	Crude Rate (per 1,000 pop.)					Under 4 weeks of age		Under 1 year		At all ages	
			No.	Rate (per 1,000 pop.)			No.	Rate per 1,000 Live Births	No.	Rate per 1,000 Live Births	No.	Crude Rate per 1,000 Population
1972	625	14.9	454	10.8	193	241	10	16	13	21	502	12.0
1971	701	16.7	485	11.6	216	225	10	14	17	24	494	11.8
1970	652	15.4	524	12.4	225	204	8	12	12	18	503	11.9
1969	649	15.3	533	12.6	227	180	9	14	10	15	486	11.4
1968	636	15.0	489	11.5	214	187	1	1.6	6	9.4	462	10.9

TABLE II - VITAL STATISTICS - 1972

	Live Births (Rate per 1,000 Home Population)	Still-Births (Rate per 1,000 Total - Live & Still-Births)	Deaths (all ages - all causes) (Rate per 1,000 Home Population)	Infant Mortality Deaths (under 1 year of age - all causes) (Rate per 1,000 live Births)	Neonatal Mortality Deaths (under 4 weeks of age - all causes) (Rate per 1,000 live births)	Perinatal Mortality Still Births and Deaths under 1 week of age- all causes- (Rate per 1,000 Total Live and Still Births)	Maternal Mortality Deaths from Maternal causes (including Abortion) (Rate per 1,000 Total - Live and Still Births)
England and Wales	14.8	12	12.1	17	12	22	0.15
Glamorgan (Administrative County)	15.2 *15.7	14	12.4 *13.5	16	11	23	0.17
BARRY	14.9 *15.5	16	12.0 *12.0	21	16	31	0.00

*Rates marked thus have been adjusted by the Area Comparability Factor (see page 5)

TABLE III - GLAMORGAN (Administrative County) - Vital Statistics, 1972

	Estim- ated Popul- ation 1972	LIVE BIRTHS		Ratio of local adjusted rate to national rate	DEATHS			Ratio of local adjusted rate to national rate	INFANT MORTALITY		PERINATAL MORTALITY		STILLBIRTHS		
		No.	Rate per 1,000 population		No.	Rate per 1,000 population			Deaths under one year	Rate per 1,000 live births	Still- births and deaths under 1 week	Rate per 1,000 live and still- births	No.	Rate per 1,000 total births	
			Crude			Adjusted	Crude								Adjusted
ADMINISTRATIVE COUNTY.....	753,290	11,439	15.2	15.7	1.06	9,346	12.4	13.5	1.12	183	16	271	23	162	14
BOROUGHES															
BARRY	41,880	625	14.9	15.5	1.05	502	12.0	12.0	0.99	13	21	20	31	10	16
Cowbridge.....	1,310	39	29.8	27.4	1.85	18	13.7	10.1	0.84	-	-	-	-	-	-
Neath.....	27,890	349	12.5	14.1	0.95	434	15.6	15.0	1.24	6	17	8	23	4	11
Port Talbot.....	50,360	612	12.2	13.2	0.89	582	11.6	13.8	1.14	13	21	16	26	7	11
Rhondda.....	88,450	1,246	14.1	15.8	1.07	1,294	14.6	14.7	1.22	20	16	39	31	28	22
URBAN DISTRICTS															
Aberdare.....	37,760	585	15.5	16.7	1.13	562	14.9	14.0	1.16	14	24	16	27	7	12
Bridgend.....	14,460	215	14.9	17.3	1.17	189	13.1	12.4	1.03	7	33	5	23	2	9
Caerphilly.....	41,480	802	19.3	17.6	1.19	408	9.8	12.6	1.04	13	16	14	17	7	9
Gelligaer.....	33,790	571	16.9	16.9	1.14	450	13.3	16.1	1.33	7	12	12	21	7	12
Glyncorrwg.....	8,500	135	15.9	16.9	1.14	127	14.9	18.9	1.56	6	44	3	22	2	15
Llwchwr.....	27,270	380	13.9	14.3	0.97	290	10.6	11.1	0.92	2	5	4	10	2	5
Maesteg.....	20,940	359	17.1	17.6	1.19	269	12.8	14.7	1.22	5	14	11	30	8	22
Mountain Ash....	27,770	456	16.4	18.0	1.22	370	13.3	15.0	1.24	9	20	11	24	7	15
Ogmore and Garw.	19,740	295	14.9	16.7	1.13	274	13.9	15.4	1.28	7	24	11	36	7	23
Penarth.....	23,640	338	14.3	14.6	0.99	338	14.3	13.7	1.13	7	21	7	21	2	6
Pontypridd.....	34,390	515	15.0	15.6	1.05	505	14.7	14.3	1.18	8	16	15	29	8	15
Porthcawl.....	14,260	172	12.1	14.3	0.96	190	13.3	10.9	0.90	1	6	1	6	-	-
RURAL DISTRICTS															
Cardiff.....	34,200	494	14.4	13.4	0.90	296	8.7	10.2	0.84	1	2	9	18	9	18
Cowbridge.....	25,240	367	14.5	14.2	0.96	167	6.6	11.4	0.94	2	5	6	16	5	13
Gower.....	16,830	209	12.4	12.8	0.86	177	10.5	11.0	0.91	2	10	4	19	3	14
Llantrisant.....	37,800	816	21.6	18.1	1.23	334	8.8	12.7	1.05	12	15	17	21	12	14
Neath.....	40,760	564	13.8	14.8	1.00	551	13.5	14.3	1.18	9	16	14	24	8	14
Penybont.....	54,970	912	16.6	15.6	1.05	631	11.5	11.8	0.98	14	15	21	23	13	14
Pontardawe.....	29,600	383	12.9	14.7	0.99	388	13.1	12.2	1.01	5	13	7	18	4	10

TABLE IV - CAUSES OF DEATH - BARRY M.B. - 1972

Cause of Death	Rate per Million Population	Total	Males	Females	AGE GROUPS (Years)										
					Under 4 Wks	4 Wks - 1 Yr	1 - 4	5 - 14	15 - 24	25 - 34	35 - 44	45 - 54	55 - 64	65 - 74	75 and over
Tuberculosis of Respiratory System.....	24	1	-	1	-	-	-	-	-	-	-	-	1	-	-
Late Effects of Respiratory T.B.	48	2	2	-	-	-	-	-	-	-	-	1	1	-	-
Meningococcal Infection.....	24	1	1	-	-	1	-	-	-	-	-	-	-	-	-
Syphilis and Its Sequelae.....	24	1	1	-	-	-	-	-	-	-	-	-	-	-	1
Malignant Neoplasm, Buccal Cavity, etc..	72	3	2	1	-	-	-	-	-	-	-	-	-	-	3
Malignant Neoplasm, Oesophagus.....	143	6	-	6	-	-	-	-	-	-	-	-	-	3	3
Malignant Neoplasm, Stomach.....	430	18	9	9	-	-	-	-	-	-	-	-	5	6	7
Malignant Neoplasm, Intestine.....	239	10	8	2	-	-	-	-	-	-	-	-	3	4	3
Malignant Neoplasm, Lung, Bronchus.....	621	26	21	5	-	-	-	-	-	-	2	3	8	8	5
Malignant Neoplasm, Breast.....	119	5	-	5	-	-	-	-	-	-	1	2	-	1	1
Malignant Neoplasm, Uterus.....	48	2	-	2	-	-	-	-	-	-	-	1	-	-	1
Malignant Neoplasm, Prostate.....	95	4	4	-	-	-	-	-	-	-	-	-	-	1	3
Leukaemia.....	72	3	2	1	-	-	-	-	-	-	2	-	-	-	1
Other Malignant Neoplasms.....	621	26	14	12	-	-	-	1	-	-	-	4	7	10	4
Benign and Unspecified Neoplasms.....	24	1	1	-	-	-	-	-	-	-	-	1	-	-	-
Diabetes Mellitus.....	143	6	2	4	-	-	-	-	-	-	-	-	1	-	5
Other Endocrine, etc., Diseases.....	72	3	3	-	1	-	-	-	-	-	-	-	1	1	-
Meningitis.....	24	1	-	1	-	-	1	-	-	-	-	-	-	-	-
Multiple Sclerosis.....	48	2	1	1	-	-	-	-	-	-	2	-	-	-	-
Other Diseases of Nervous System, etc.,	119	5	4	1	-	-	-	-	-	-	-	-	-	4	1
Chronic Rheumatic Heart Disease.....	119	5	-	5	-	-	-	-	-	-	1	-	1	1	2
Hypertensive Disease.....	263	11	5	6	-	-	-	-	-	-	-	1	1	1	8
Ischaemic Heart Disease.....	3,391	142	77	65	-	-	-	-	-	-	6	8	25	35	68
Other Forms of Heart Disease.....	430	18	5	13	-	-	-	-	-	-	-	-	-	3	15
Cerebrovascular Disease.....	1,433	60	24	36	-	-	-	-	2	-	-	1	5	25	27
Other Diseases of Circulatory System....	167	7	2	5	-	-	-	-	-	-	-	-	-	2	5
Influenza.....	48	2	2	-	-	-	-	-	-	-	1	-	-	-	1
Pneumonia.....	716	30	13	17	-	-	-	-	-	-	-	2	-	11	17
Bronchitis and Emphysema.....	645	27	25	2	-	-	-	-	-	-	-	1	9	3	14
Other Diseases of Respiratory System....	119	5	4	1	-	-	-	-	-	-	-	-	1	2	2
Peptic Ulcer.....	143	6	3	3	-	-	-	-	-	-	-	1	-	1	4
Intestinal Obstruction and Hernia.....	24	1	-	1	-	-	-	-	-	-	-	-	-	1	-
Other Diseases of Digestive System.....	48	2	-	2	-	-	-	-	-	-	-	-	-	1	1
Nephritis and Nephrosis.....	72	3	2	1	-	-	-	-	-	-	1	-	1	1	-
Hyperplasia of Prostate.....	48	2	2	-	-	-	-	-	-	-	-	-	-	1	1
Other Diseases Genito-Urinary System....	167	7	3	4	-	-	-	-	-	-	-	-	1	3	3
Diseases of Skin, Subcutaneous Tissue...	48	2	2	-	-	-	-	-	-	-	-	-	-	1	1
Diseases of Musculo-Skeletal System.....	119	5	2	3	-	-	-	-	-	-	-	2	-	-	3
Congenital Anomalies.....	143	6	2	4	2	1	-	-	-	-	-	2	-	1	-
Birth Injury, Difficult Labour, etc., ..	95	4	2	2	4	-	-	-	-	-	-	-	-	-	-
Other Causes of Perinatal Mortality.....	72	3	3	-	3	-	-	-	-	-	-	-	-	-	-
Symptoms and Ill-Defined Conditions.....	95	4	1	3	-	1	-	-	-	-	-	-	-	-	3
Motor Vehicle Accidents.....	95	4	3	1	-	-	-	-	1	-	1	-	-	1	1
All Other Accidents.....	358	15	8	7	-	-	-	-	-	2	1	-	1	3	8
Suicide and Self-Inflicted Injuries.....	72	3	2	1	-	-	-	-	1	1	-	1	-	-	-
All Other External Causes.....	48	2	1	1	-	-	-	1	-	-	-	-	-	1	-
TOTALS	11,988	502	268	234	10	3	1	2	4	3	18	31	72	136	222
Percentages of Total Deaths.....					2.0	0.6	0.2	0.4	0.8	0.6	3.6	6.2	14.3	27.1	44.2

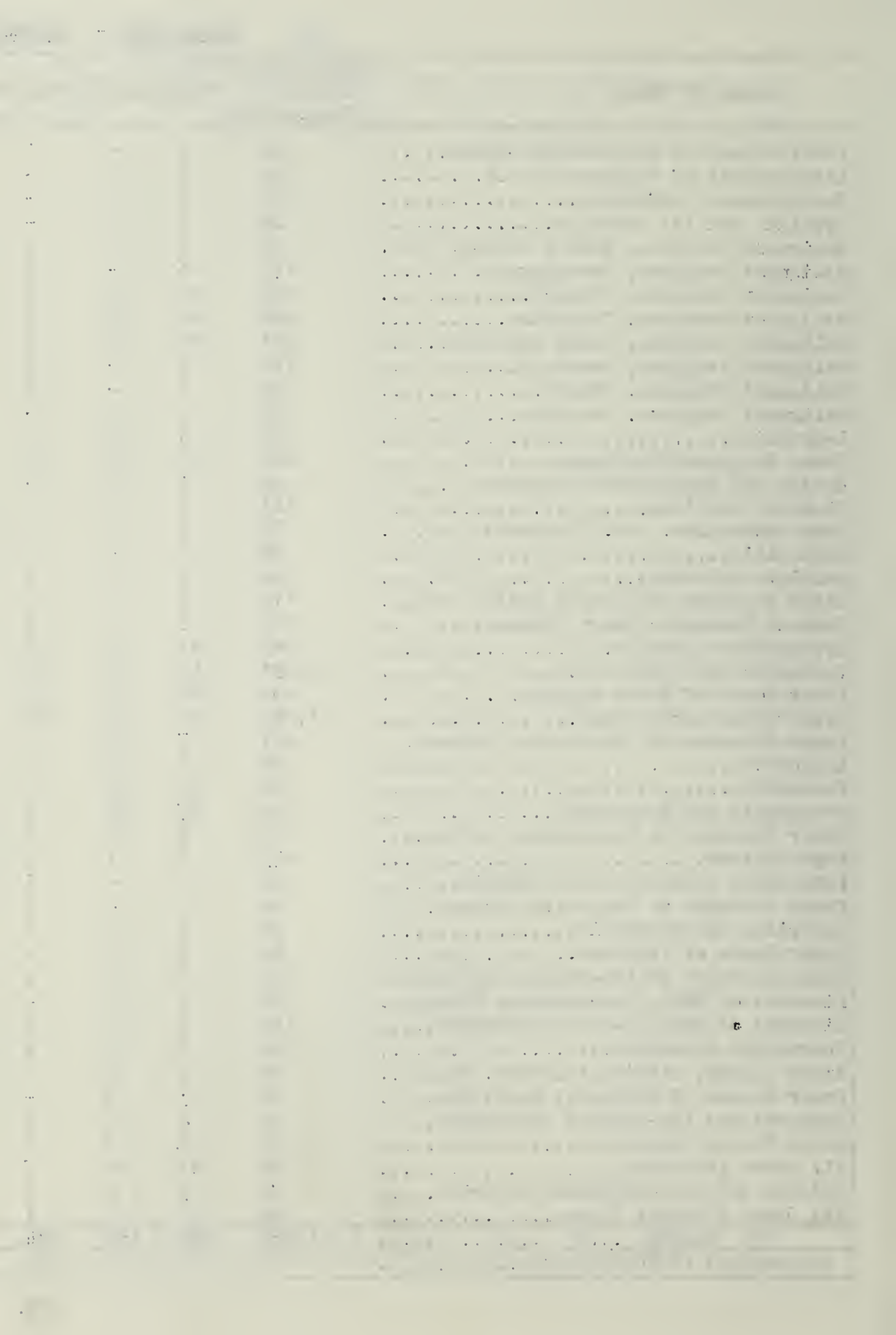


TABLE V

Cause of Death	Age											Total
	Under 1 Mth	1-2 Mths	2-3 Mths	3-4 Mths	4-5 Mths	5-6 Mths	6-7 Mths	7-8 Mths	8-9 Mths	9-10 Mths	10-11 Mths	
	11-12 Mths											
Congenital Abnormalities.	2	-	-	1	-	-	-	-	-	-	-	3
Endocrine Disease.	1	-	-	-	-	-	-	-	-	-	-	1
Immaturity.	3	-	-	-	-	-	-	-	-	-	-	3
Meningococcal Infection..	-	-	-	-	-	-	1	-	-	-	-	1
Respiratory Distress.....	4	-	-	-	-	-	-	-	-	-	-	4
Other Conditions.....	-	-	-	-	-	-	1	-	-	-	-	1
Totals	10	-	-	1	-	-	2	-	-	-	-	13

TABLE VI

Cause of Death	Age										Total
	0-1 Day	1-2 Days	2-3 Days	3-4 Days	4-5 Days	5-6 Days	6-7 Days	7-14 Days	14-21 Days	21-28 Days	
Congenital Abnormalities..	2	-	-	-	-	-	-	-	-	-	2
Endocrine Disease.....	-	-	-	-	1	-	-	-	-	-	1
Immaturity.....	3	-	-	-	-	-	-	-	-	-	3
Respiratory Distress.....	3	-	-	-	-	-	1	-	-	-	4
Totals.....	8	-	-	-	1	-	1	-	-	-	10

Infectious and Other Notifiable Diseases:

(a) Tuberculosis -

Three new cases of pulmonary tuberculosis and nil of other forms were notified during the Year, as compared with 6 and 2 respectively for 1971.

A Chest Clinic is maintained in Barry by the University of Wales (Cardiff) Hospital Management Committee and attendances during the Year were as follows:-

Number of attendances at Clinic..... 529

Number of new patients examined..... 187

In addition, 1,585 selected patients were x-rayed at the Amy Evans Hospital by direct referral by general practitioners. This Service has proved most useful in that any chest or lung abnormality (including suspected tuberculosis) discovered at the examinations is referred directly to the Chest Clinic.

B.C.G.Vaccination - During the Year, the Glamorgan County Council undertook B.C.G.Vaccination of 553 mantoux-negative children.

(b) Other Notifiable Diseases:

234 cases were notified during the Year, compared with 650 in 1971.

The following Table shows the number of cases notified and those removed to hospital during 1971 and 1972.

TABLE VII

Disease	Number notified		Number removed to hospital	
	1971	1972	1971	1972
Dysentery.	3	-	-	-
Food Poisoning... ..	5	-	2	-
Jaundice (Infective)....	9	27	-	1
Measles (excluding Rubella)...	633	198	1	2
Meningitis, Acute....	-	2	-	2
Scarlet Fever.....	-	7	-	-
Totals.	650	234	3	5

Food Poisoning

No case of food poisoning was notified during the Year.

Immunisation:

The Immunisation programme was undertaken by Medical Officers of the Local Health Authority (Glamorgan County Council) and General Practitioners in the Barry Area.

The following details of Immunisation during the Year have been kindly supplied by the S.E.Divisional Health Office of the Glamorgan County Council.

(i) Diphtheria -

(a) Primary..... 549

(b) Boosters..... 416

All of these were also protected against tetanus.

Protection against whooping cough was provided in the following instances - 527 (primary); 161 (boosters).

(ii) Poliomyelitis -

(a) Primary..... 619

(b) Boosters..... 412

(iii) Measles 75

Vaccination against Smallpox:

27 primary vaccinations and 62 re-vaccinations of children under 16 years of age were undertaken in the Area by General Practitioners.

In addition, Health Department, Port and Hospital Staffs, i.e., "personnel at risk" were vaccinated by the Barry Borough Health Department.

Laboratory Service:

Bacteriological examinations were carried out by the Public Health Laboratory Service, University Hospital of Wales, Heath Park, Cardiff.

National Assistance Act, 1948. (Section 50) (Burial of the Dead)

During the Year, the Department was called upon, in two instances, to take action under this Section.

Hospital Reorganisation:

1972 was a year of major changes in the hospital provision within the Borough. The long-planned opening of the University Hospital of Wales, Heath Park, Cardiff, commenced during the Year.

The previously announced plan for the Area envisaged the closure of all the Barry Hospitals except Sully and the Neale-Kent Long Stay Unit. Intense local activity including public demonstrations; many official deputations from the Barry Borough Council presenting reasoned arguments to the Welsh Hospital Board and the Welsh Office; meetings between local General Practitioners and Welsh Hospital Board officials, assisted in obtaining considerable but not total modification of the original plan.

Hospital Reorganisation: (Cont.)

The removal of the surgical team from the Barry Accident and Surgical Hospital to Llandough resulted in the inevitable removal of the Accident Unit to the Cardiff Royal Infirmary and the opening of the University Hospital of Wales (Heath Park) Obstetric Unit resulted in the closure of Barry Maternity Hospital.

However, the hospital in Wyndham Street was, within a fortnight of its closure, re-opened as a highly successful pioneer Community Hospital (Acute Services), staffed by some fifteen general practitioners and retaining in the Town full x-ray, physiotherapy and pathology services for the use of all general medical practitioners in the Area.

The Amy Evans Out-Patient Department was retained with all its previous services but in addition it became - and remains in the medium term - the official Out-Patient Department for Llandough Hospital. As a result, the number of consultant sessions have almost doubled with resultant excellent service to the community.

The future use of Sully Hospital is not yet completely clear.

Social Services for the Elderly:

By the end of 1972, the Corporation had increased the number of dwellings specifically designed for Old Age Pensioners to 380, but far more units of this type are needed in the Area.

During the Year, 13 men and 20 women from the Barry Area were admitted to Homes for the Aged under the control of the Social Services Department of the Glamorgan County Council. The Director of Social Services (Mr. I. R. Jenkins) has also indicated that, in all, some 136 Barry residents (50 men and 86 women) are so accommodated.

The Glamorgan County Council has accommodation within the Barry boundary for 68 persons and a further Home is to be provided in the near future.

At the end of the Year, 12 men and 36 women from the Barry Area were awaiting admission to Homes for the Aged.

During the Year, Day Hospital accommodation for the elderly continued to be provided by the University Hospital of Wales (Cardiff) Hospital Management Committee at St. Mary's Hospital, Penarth, and at Neale-Kent Hospital, Barry.

During the Year, the Barry Corporation continued their long-standing practice of making financial grants on a membership basis to Old Age Pensioner Organisations in the Area.

During 1972, the Barry Corporation, through the W.R.V.S., provided a Meals on Wheels Service on 14,097 occasions to some 90 housebound old people.

The Darby and Joan Luncheon Club at the Dinam Hall served 6,442 meals to elderly people. The Luncheon Club is open for five days during the week.

Social Services for the Elderly: (Cont.)

The Old People's Welfare Committee continued to co-ordinate the voluntary and statutory services for the elderly and the Street Good Neighbour Scheme, instituted some years ago, has still continued.

During National Old People's Week, 456 housebound senior citizens were visited and presented with gifts by the Mayor and representatives of the Committee, whilst those able to get about were provided by the Council, through its Entertainments Committee, with a week of concerts and whist drives at the Barry Memorial Hall.

Abbeyfield (Barry) Society:

The Society continued to maintain two Houses, providing total accommodation for 14 individuals.

Chiropody Service:

This Service is provided by the Glamorgan County Council.

At the end of 1972, there were 1,328 patients on the Register and, during the Year, 2,443 treatments were given at the Clinics and 1,732 treatments in the patients' own homes.

Holiday Schemes:

Holiday relief schemes are provided when possible by both the Hospital and Social Service Departments. These are supplemented in Barry by Holiday and Convalescent Schemes provided by the Barry Nursing and Samaritan Association.

National Blood Transfusion Service:

Six donation sessions for the General Public of Barry and District were held during 1972, the calling of donors being arranged by the Public Health Department. 760 donations were received at these sessions.

Additional sessions were arranged by the National Blood Transfusion Service for special groups in the Area, resulting in a further 501 donations.

The many blood donors of Barry are to be congratulated upon their continued support of this most important Service.

SANITARY CIRCUMSTANCES IN THE AREA

Water

All Barry houses are provided with water direct from the public mains.

The public water supply to this Area is maintained by Cardiff Corporation and is satisfactory in quality and in quantity but, from time to time, problems have arisen due to discolouration of the supply by inert deposits leading to local complaints of 'dirty water' in taps. All complaints were investigated but bacteriological results proved satisfactory. The Water Board followed up with mains flushing.

Water (Cont.)

It should be noted that the supply to the Barry Area contains less than 0.2 parts per million of fluoride whilst the recommended level for prevention of dental caries is one part per million.

During the Year, 1 chemical and 53 bacteriological samples were taken. 6 bacteriological samples proved unsatisfactory and follow-up samples were taken in these instances.

Typical chemical and bacteriological reports are as follows :-

CHEMICAL ANALYSIS

Date of Analysis	.....	13/4/72.
Appearance	.....	Clear
Colour (Hazen Units)	.....	< 5
Reaction, pH value	.....	7.7
Total Hardness (as CaCO ₃)	.....	42
(a) Temporary	.....
(b) Permanent	.....
Chlorides (expressed as Cl.)	.....	13
Nitrates (expressed as N.)	.....	< 0.1
Nitrites (expressed as N.)	.....	< 0.002
Ammoniacal Nitrogen	.....	0.006
Albuminoid Nitrogen	.....	0.038
Oxygen absorbed in 4 hours at 27°C. from N/80 Permanganate	.....	0.60
Metals: Iron	.....	Nil
Manganese	.....	Nil
Copper	.....	Nil
Zinc	.....	Nil
Lead	.....	Nil
Residual Chlorine	.....	< 0.02
Volume of Sediment	.....	0.5
Microscopical Examination of the Sediment	.....	Practically nil, diatoms, amorphous debris, vegetable matter.

REMARKS :

A clear, colourless, faintly alkaline soft water of fairly good organic quality.

BACTERIOLOGICAL ANALYSIS

Date of Analysis	.....	13/4/72.
Probable Number of Coliform Bacilli per 100 ml.	.....	0
Probable Number of Faecal Coli per 100 ml.	.....	0
Remarks	.....	Satisfactory.

Rivers and Streams

There are no rivers or streams of any size in the Area.

Swimming Pools

Within the Borough are located four swimming pools all provided with the plant necessary to give full continuous water treatment including chlorination. and operated

The public, open-air pool at the Knap is the largest and is owned by the Corporation, being open for bathing only during the Summer Season.

This pool previously utilised sea water pumped from the adjacent foreshore. The sea water required prolonged treatment by passage through the water purification plant to bring it to the requisite bacteriological quality prior to the annual opening of the pool.

This year, at the start of the Season, a change was made involving the use of the Town water supply in place of sea water and the change took place almost totally un-noticed by users of the facility.

The capacity of the pool is $1\frac{1}{2}$ million gallons with a turnover period of 12 hours.

Breakpoint chlorination gives a completely satisfactory water with a minimum residual over breakpoint of one part per million in the heaviest bathing loads (which are often in excess of 5,000 admissions to the pool daily).

Two large swimming pools - one open-air and one indoor - are provided at Butlin's Holiday Camp for the enjoyment of holidaymakers, both resident and day visitors.

The fourth - an indoor swimming pool - is a facility provided for the use of students at Glamorgan County Council's College of Education.

In addition to daily comparator testing for free chlorine by the personnel in charge of the pools, Officers of the Health Department regularly obtain samples of water from the various swimming pools for chemical and bacteriological examinations which are carried out by arrangement with the Public Health Laboratory Service and the Council's Public Analyst.

Drainage and Sewerage

The disposal of sewage is to the sea by means of two foreshore low-water outfalls, one (partially treated) serving the Eastern area together with parts of the adjoining Cardiff Rural District, and the other (untreated) the Western area of the Borough.

Sewage disposal for Sully Hospital is also to the sea, untreated, by way of a separate outfall which discharges at the low water mark and at a point located a short distance outside the boundary of this Area.

A private enquiry was held in January at which a Welsh Office Inspector examined in detail the Western Long Sea Outfall Scheme prepared by the Council's Consultants and also heard evidence submitted by Officers of the Glamorgan Rivers Board.

Drainage and Sewerage (Cont.)

The outcome of the enquiry was approval for further expenditure in connection with the Scheme to enable its preparation to be carried forward to the stage at which it will be possible to invite tenders for the works involved.

One small treatment works at the Western end of the Town serves about 35 houses. Apart from a few farmsteads and outlying houses, all other premises are connected with the public sewer.

Factories Act, 1961

131 inspections were made to the 140^{*} factories, etc., on the Register.

(* This figure includes 46 factories situated on the dockside)

Details of the defects found/remedied are set out in Table 2 of the relevant Appendix. (see page 33)

Common Lodging Houses

There are no Common Lodging Houses in the Area.

Seamen's Lodging Houses

There is one Seamen's Lodging House in the District, registered to accommodate 20 seamen. The house is well kept and regulated, and is subject to constant supervision.

Caravan Sites

Only one licensed caravan site exists at the present time in the Borough. It is a Local Authority residential site and the licence permits a total of 23 structures to stand thereon.

It is the policy of the Council, ultimately, to close the site and, during the Year, a total of 16 caravans occupied the land.

The licence in respect of the seasonal caravan site expired last year concurrently with the Planning Consent for the land.

A planning application to continue the use of the land as a seasonal caravan site was submitted to Glamorgan County Council and determination of the application, allowing continuing use of the land for a further limited period, was made known in 1973.

Housing

Slum Clearance

The extensive programme of clearance initially embarked upon during 1968 continued during 1972 and two Clearance Orders made by the Council last year and subsequently incorporated in The Barry (Kingsland Crescent) Compulsory Purchase Order (No. 1) 1971 and The Barry (Dock View Road/Coronation Street) Compulsory Purchase Order (No. 2) 1971, were the subject of a joint Public Enquiry held in January.

Housing (Cont.)

Slum Clearance (Cont.)

Notices of the confirmation of the two Orders were duly received in April and were subject to minor modifications to each.

The confirmation by the Secretary of State of these Orders completed the Council's proposals as to the clearance of dwellings South of Holton Road under Part III of the Housing Act, 1957, to facilitate re-development of the area for residential and other purposes.

During the Year, The Barry (130, Barry Road) Compulsory Purchase Order, 1972, was made by the Council under the provisions of Part V of the Housing Act, 1957, and submitted to the Secretary of State for confirmation.

This Order involved one terraced house which was already subject to an operative Closing Order.

An objection to the Compulsory Purchase Order was received and a Private Enquiry into the Order was conducted by a Welsh Office Inspector in October and confirmation of the Order was subsequently received.

Housing Conditions in the Area

House Condition Survey

To enable reasonably accurate information to be supplied to the Welsh Office in response to Circular No. 110/72, a Survey of housing in the Area was carried out using the random sample procedure.

A total of 1,023 dwellings was visited for survey purposes out of the total housing stock of the Borough of some 13,783 dwellings.

The appended Table sets out the information, relating to the condition of houses and the availability of the essential facilities, which was obtained as a direct outcome of the Survey.

(see following page for Table)

Housing Survey - October, 1972.

	%	Actual Estimate
No. of Unfit Dwellings occupied and vacant, already included in confirmed Clearance Areas...	0.44 %	61
No. of Unfit Dwellings in respect of which action should be taken under Part III of Housing Act, 1957 (Clearance Areas)	0.23 %	32
No. of Unfit Dwellings in respect of which action should be taken under Section 16 of Housing Act, 1957 (Individual Demolition or Closure)	0.08 %	10
No. of temporarily Unfit Dwellings which are capable of being repaired at a reasonable cost...	10.59 %	1,460
No. of Dwellings without a bathroom.	10.65 %	1,468
No. of Dwellings without a wash hand basin.	13.29 %	1,832
No. of Dwellings without an internal water closet.	13.88 %	1,913
No. of Dwellings without a supply of hot water at the kitchen sink.	4.79 %	660
No. of Dwellings with a kitchen floor area of less than 60 sq. ft.	18.47 %	2,546
No. of fit dwellings up to a 12 point standard....	61.78 %	8,514
No. of fit dwellings* capable of improvement to the 12 point standard.	37.18 %	5,124
(* includes temporarily unfit dwellings)		

House Condition Survey (Cont.)

The Chief Public Health Inspector (Mr.J.Barrie Jones) and his Staff are to be congratulated on the expeditious and meticulous manner in which they carried out this extensive Survey in addition to their normal duties.

Housing Statistics - 1972

Number of houses demolished or closed as a result of :-

- (a) compulsory purchase and clearance orders..... 92 (demolished)
- (b) individual demolition and closing orders..... Nil

Number of persons displaced from:

- (a) houses to be demolished in or adjoining
clearance areas..... 194
- (b) houses to be demolished not in or adjoining
clearance areas..... Nil
- (c) houses to be closed..... Nil
- (d) parts of buildings to be closed Nil

Number of families displaced from:

- (a) above. 63
- (b) above. Nil
- (c) above. Nil
- (d) above. Nil

8 houses were made fit following the taking of formal action under the Public Health Act, 1936, and 1 as a result of formal action under the provisions of Section 9 of the Housing Act, 1957.....

Defects were remedied in 26 houses after the service of formal notices under the Public Health Acts.

110 informal notices were served and 130 complied with.

RENT ACT, 1968

Applications for Certificates of Disrepair.	Nil
Decisions to issue Certificates of Disrepair.	Nil
Decisions not to issue Certificates of Disrepair. .	Nil
Undertakings accepted.	Nil
Undertakings refused.	Nil
Certificates of Disrepair actually issued.	Nil
Applications for cancellation of Certificates of Disrepair...	1
Objections by Tenants against applications for cancellation of Certificates of Disrepair.....	Nil
Decisions to cancel Certificates of Disrepair in spite of Tenants' objections.....	Nil
Certificates of Disrepair actually cancelled.	1

Housing - General

Number of inhabited premises - 1972

Houses and Flats.....	13,352
Houses/Shops	327
Prefabricated Bungalows.....	4
Aluminium Bungalows.....	100
Total.....	<u>13,783</u>

Number of dwellings completed during the Year :

Council.....	16
Private.....	128
Total.....	<u>144</u>

Number of dwellings under construction at end of Year :

Council.....	99
Private.....	116
Total.....	<u>215</u>

Housing - General (Cont.)

Number of Private Dwellings improved with Grant Aid..... 147

..... Total number of Council Houses at 31st. December, 1972..... 3,805

(This figure includes 4 Prefabricated Bungalows,
100 Aluminium Bungalows and 380 dwellings provided
specifically for Old Age Pensioners)

Housing - Council Houses

During the Year under review, the following applicants were rehoused
under the various Sections of the Council's House Letting Scheme :

General List.	13
Special List (Health)	1
Pensioners' List (including 7 nominations on health grounds). 21	
Demolition and Closing Orders.....	64
Other Categories.....	12
Total.....	<u>111</u>

In addition, 50 transfers and 39 exchanges were arranged.

House Letting Scheme

Anyone who has made application for a Council house can submit a medical certificate in support thereof. These are considered by the Medical Officer of Health and, where deemed necessary, recommendations for rehousing on medical grounds are submitted to the Corporation.

From the Scheme's inception to the end of the Year, 279 applicants had been rehoused on health grounds. In addition, a proportion of pensioners' dwellings are allocated on recommendation by the Medical Officer of Health.

Rodent Control

Rodent control has been exercised in this Area since the Rats and Mice Destruction Act, 1919, and the Corporation have had a Pest Officer in their service since the Act came into operation.

Complaints received are immediately investigated and the methods recommended by the Ministry of Agriculture, Fisheries and Food are followed.

The 1972 Return to the Ministry is set out on the following page :

Rodent Control (Cont.)

1972 Return to Ministry/

PROPERTIES OTHER THAN SEWERS

	Type of Property	
	Non-Agricultural	Agricultural
1. Number of properties in district.....	15,725	17
2. (a) Total number of properties (including nearby premises) inspected following notification...	412	Nil
(b) Number infested by -		
(i) Rats.....	184	Nil
(ii) Mice.....	224	Nil
3. (a) Total number of properties inspected for rats and/or mice for reasons other than notification.....	10	8
(b) Number infested by -		
(i) Rats.....	9	Nil
(ii) Mice.....	Nil	Nil

As in recent years the mouse continues as the greatest single nuisance to the community and as a direct result takes up a greater part of the time and effort of the Pest Officer than any other rodent, bird or insect.

By sheer perseverance, a reasonable level of control of mouse infestations has been maintained but the mouse remains as pest No. 1.

A successful treatment of the whole of the Town's sewer system for the destruction of rats was carried out during the Autumn when an extended period of good weather assisted the operatives engaged and ensured baits being readily available to any rodents within the sewers.

The treatment was carried out using Warfarin dressed grain strictly in accordance with Ministry of Agriculture, Fisheries and Food approved procedures.

Public Cleansing

A once weekly kerbside collection of household refuse, using plastic sacks as bin liners, is in operation. The sacks are loaded into a compression type collection vehicle and disposed of by controlled tipping.

This system is proving satisfactory and the Engineer's Department reviews the system continuously with the aim of increased efficiency.

The following figures in respect of house and trade refuse have been supplied by the Borough Engineer :

Estimated Weight disposed at Tip by Council..... 12,974 Tons.

In addition to house and trade refuse, other materials were disposed of at the Tip and the following estimated weights have been provided by the Borough Engineer :

By Council Vehicles..... 2,070 Tons.

By Other Vehicles..... 590 Tons.

Total..... 2,660 Tons.

(Period: 27/12/71 to 31/12/72)

INSPECTION AND SUPERVISION OF FOOD

Milk Supply

During the Year, 30 samples of milk were tested for keeping qualities. 23 of these proved satisfactory and 7 unsatisfactory.

Follow-up samples were taken in appropriate cases.

20 samples of raw milk were examined for brucella abortus; no confirmed positive results were obtained.

The Milk (Special Designation) Regulations

There are 143 licensed dealers in the Area.

There are no pasteurising or sterilising plants within the Borough.

The Milk and Dairies (General) Regulations, 1959

Regular inspections have been made of the premises covered by the Regulations and, generally speaking, these were found to be kept in a satisfactory condition.

Ice Cream

55 samples of ice cream were taken in 1972 and these were submitted to the Methylene Blue Test.

The samples were graded as follows :-

Grade 1	49
Grade 2	4
Grade 3	1
Grade 4	1

Total.....	55
------------	----

Follow-up samples were taken in the appropriate cases and satisfactory results were subsequently obtained.

The Liquid Egg (Pasteurisation) Regulations, 1963

There are no egg pasteurisation plants in the District and no samples of liquid egg were submitted.

Poultry Inspection

There are no premises existing within the Area at which the slaughtering of poultry regularly takes place.

The inspection of poultry is carried out at shops offering this commodity for sale.

Slaughterhouses Act, 1958

There are no public or private slaughterhouses now existing within the Borough.

Meat Inspection (Shops)

A total weight of 919 lbs. of meat was certified as unfit for human consumption at Butchers' shops and voluntarily surrendered for supervised disposal.

In every instance the above procedure was undertaken at the request of the person in charge of the business.

Food Inspection

Food inspections were regularly carried out and, during the Year, 8,101 lbs. of various foods were found to be unfit for human consumption. All these condemned foodstuffs were destroyed.

The Food Hygiene (General) Regulations, 1960

The enforcement of these Regulations continues and the following Table shows the position in relation to the provision of wash-hand basins (Regulation 16) and facilities for washing food and equipment (Regulation 19):-

Category of food premises	No.	No. fitted to comply with Reg.16	No. to which Reg.19 applies	No. fitted to comply with Reg. 19
Grocers	122	122	86	86
Cafes, Restaurants, etc. ..	59	59	59	59
Confectioners	44	44	20	20
Greengrocers/Fishmongers ..	32	32	17	17
Butchers	37	37	36	36
Public Houses, Clubs, etc..	51	48	45	45
Fish-friers	16	16	16	16
Bakehouses	6	6	6	6
Pleasure Park and Beach Kiosks	19	19	8	8
Canteens	19	19	19	19
Warehouses and other large food premises	7	7	2	2
TOTALS	412	409	314	314

Food and Drugs Act, 1955

115 samples were submitted by the Chief Public Health Inspector to the Public Analyst. (this figure includes 20 samples of drugs and medicines)

11 food samples proved unsatisfactory and details of these are set out as follows :-

No.	Article	Formal, Informal, Private.	Nature of Adulteration or Irregularity	Action Taken
5B	Pork Sausage with preservative.	Informal	Contained only 58.2 percent of meat and was, therefore, deficient in meat to the extent of at least 9 per cent.	Follow-up formal sample No.B 29 purchased and reported upon by Analyst as complying with the Sausage and Other Meat Product Regulations, 1967.
8B	Jar of Pickled Onions.	Private	The yellowish substance present on the skin of the onions consisted of Quercetin.	Complainant informed of the report of the Public Analyst upon the commodity.
35B	Beef Sausages.	Informal	Contained only 23 per cent of lean meat and was, therefore, deficient in lean meat to the extent of 8 per cent.	Manufacturers informed of Analyst's findings. Follow-up formal sample (B53) taken and complied with the prescribed standard.
75B	Loaf of Bread.	Private	Dark stain in loaf of bread caused by presence of edible grease contaminated with a trace of iron.	Manufacturer fined £20.00 with Public Analyst's fee of £5 and £5 Advocate's fee.
76B	Meat Pastie.	Private	Dead fly adhering to the pastry of the pastie.	Manufacturer fined £10 with Public Analyst's fee of £5 and £3 Advocate's fee.
77B	Portion of Veal and Ham Pie.	Private	Discoloured meaty tissue, stained with insoluble green pigment, attached to small piece of pastry of pie.	Manufacturer notified of Analyst's comments.

No.	Article	Formal, Informal, Private.	Nature of Adulteration or Irregularity	Action Taken
84B	Bottle of Vitamin Mineral Syrup ("Minadex").	Private	Contents of bottle showed a brown discolouration - not of the nature demanded by purchaser.	Vendor notified of Analyst's comments.
99B	Carbonated Water.	Informal	The sample contained an excessive amount of saccharin and benzoic acid preservative and was not labelled.	The importer was informed that the product did not comply with the various Regulations/Orders and the consignment was re-exported.
108B	Chicken Chow Mein.	Private	Did not contain beanshoots or onions as declared in the list of ingredients on the label.	Letter sent to Manufacturer. Production discontinued and remaining stock surrendered for destruction.
109B	Chicken Chow Mein.	Informal	Sample did not contain beanshoots and only a trace of onion (which were included in the list of ingredients).	Manufacturer notified of Analyst's comments. Remaining packs of this product withdrawn from sale.
115B	Sliced Loaf of Bread.	Private	White fibrous material embedded in one slice of bread; very small insect fragment(s) embedded in two other slices.	Manufacturer notified of Analyst's findings and warned.

Offices, Shops and Railway Premises Act, 1963

The following Table shows the position with regard to registration under the provisions of this Act at the end of the Year.

Class of Premises	No. of premises registered during the year	Total No. of registered premises at end of year	No. of persons employed	No. of registered premises receiving a general inspection during the year
Offices.	6	112	848	91
Retail Shops	9	327	1,566	272
Wholesale Shops, Warehouses.....	1	9	91	7
Catering establishments open to the public, Canteens.....	8	82	627	66
Fuel storage depots.....	-	-	-	-
TOTALS	24	530	3,132*	436

* Of this number of employed persons, 1,019 were males and 2,113 females.

Number of visits of all kinds by Inspectors to registered premises.. 634.

Generally it has been found in this District that incoming occupiers of premises have been unaware of their obligations to register under the Act when they employ staff, but regular visits of inspection together with intimate local knowledge of the Borough have enabled all premises which come within the provisions of the Act to be registered.

Contraventions of the Act are in the main found to be centred around the following :-

- (a) the content of first-aid boxes not being maintained to the full standard;
- (b) the Abstract of the Act being mislaid;
- (c) the state of cleanliness of walls and ceilings becoming unsatisfactory in work rooms and in compartments containing washing facilities and water closets.

Offices, Shops and Railway Premises Act, 1963 (Cont.)

In every case, it has been found that compliance with the Act and its associated Regulations has been obtained by means of discussions with the occupiers and/or by the service of suitably worded intimation notices. Also, when and where necessary, such follow-up action as required has been carried out to ensure that contraventions are satisfactorily dealt with by those in default.

With regard to proposals for new premises and the alteration of existing buildings, it is the practice to examine all plans submitted to the Local Authority for Building Regulation or Planning Approval, in the light of the requirements of 'O.S.R.A.'.

It has been found in practice that architects and developers have readily accepted any advice proffered and in this way many potential structural contraventions of the Act have been satisfactorily resolved at the planning stage to the benefit of all concerned.

The Measurement of Air Pollution

The operation of the apparatus sited at Woodlands House, Woodlands Road, for the volumetric measurement of smoke and sulphur dioxide continued throughout the Year in collaboration with the Warren Spring Laboratory.

The Year's results further confirmed the previous findings that smoke and sulphur dioxide levels in the central area of the Town were extremely low at all times and under the widely varying atmospheric conditions that are experienced over the period of twelve months.

Smoke Abatement

Two emissions of dark smoke from trade premises in contravention of Section 1 of the Clean Air Act, 1968, were recorded during the Year and dealt with by discussion on an informal basis with the persons in control of the sites from which dark smoke was emitted.

Noise Abatement Act, 1960

A total of six noise complaints were received and investigated during 1972.

Only in one instance was it considered that an actionable nuisance was being created and informal action achieved abatement and non-recurrence of the noise nuisance.

Pet Animals Act, 1951

Two 'pet shops' were licensed during the Year.

Animal Boarding Establishments Act, 1963

There are no establishments licensed in the Area.

Legal Proceedings

Legal proceedings were instituted in the following instances during the Year.

Reason Proceedings Instituted	Result
Sale of loaf of bread found to contain foreign matter (Food and Drugs Act, 1955)	FINE: £20 plus Public Analyst's fee of £5 and Advocate's fee of £5.
Sale of meat pastie found to contain foreign matter (Food and Drugs Act, 1955)	FINE: £10 plus Public Analyst's fee of £5 and Advocate's fee of £3.
Sale of carton of yoghourt containing mould (Food and Drugs Act, 1955).	FINE: £25.
Sale of meat pastie not of the quality demanded by the purchaser (Food and Drugs Act, 1955)	FINE: £5 plus Advocate's fee of £3.
Sale of carton of Beetroot Salad not of the quality demanded by the purchaser (Food and Drugs Act, 1955)	FINE: £5 plus Public Analyst's fee of £5.50 and Advocate's fee of £5.
Failure to comply with requirements of Abatement Notice (Public Health Act, 1936)	Nuisance Order granted; Defendant Company ordered to pay £10 towards the Corporation's costs.
Failure to comply with requirements of Abatement Notice (Public Health Act, 1936)	Nuisance Order granted; Defendant fined £10 and ordered to pay £5 towards the Corporation's costs.

APPENDIX
FACTORIES ACT, 1961

ANNUAL REPORT OF THE MEDICAL OFFICER OF HEALTH
IN RESPECT OF THE YEAR 1972
FOR THE BOROUGH OF BARRY IN THE COUNTY OF GLAMORGAN

Prescribed Particulars on the Administration of the Factories Act, 1961

PART I OF THE ACT

1. Inspections for purposes of provisions as to Health (including
inspections made by Public Health Inspectors)

PREMISES (1)	Number - on Register (2)	NUMBER OF		
		Inspec- tions (3)	Written notices (4)	Occupiers prosecuted (5)
(i) Factories in which Sections 1,2,3,4 and 6 are to be enforced by Local Authorities.....	17	16	-	-
(ii) Factories not included in (i) in which Section 7 is enforced by the Local Authority.....	123	115	2	-
(iii) Other Premises in which Section 7 is enforced by the Local Authority (excluding outworkers' premises).....	-	-	-	-
TOTAL	140	131	2	-

PART I OF THE ACT

(Cont.)

2. - Cases in which DEFECTS were found

PARTICULARS	Number of cases in which defects were found				No. of cases in which prosecutions were instituted
	Found	Remedied	Referred to H.M. Inspector	Referred by H.M. Inspector	
(1)	(2)	(3)	(4)	(5)	(6)
Want of Cleanliness (S.1).....	-	-	-	-	-
Overcrowding (S.2)	-	-	-	-	-
Unreasonable Temperature (S.3)..	-	-	-	-	-
Inadequate Ventilation (S.4)....	-	1	-	-	-
Ineffective drainage of Floors (S.6).....	-	-	-	-	-
Sanitary Conveniences (S.7)					
(a) Insufficient.....	-	-	-	-	-
(b) Unsuitable or defective...	3	-	-	-	-
(c) Not separate for sexes....	-	-	-	-	-
Other offences against the Act (not including offences relating to Outwork).....	-	-	-	-	-
TOTAL	3	1	-	-	-

PART VIII OF THE ACTOUTWORK (Sections 133 and 134)

No outworkers registered in District.

P O R T H E A L T H S E C T I O N

B A R R Y P O R T H E A L T H A U T H O R I T Y

A N N U A L R E P O R T - 1 9 7 2

Constitution of Port Health Authority

The Port Health Authority was constituted by an Order of the Local Government Board, dated 27th. July, 1893, and an amending Order, dated 27th. April, 1938, of the Ministry of Health made under Sections 3, 9 and 314 of the Public Health Act, 1936.

The Port Health Authority is the Mayor, Aldermen and Burgesses of the Borough of Barry, acting by the Council.

Riparian Authorities

The contributing Riparian Authorities are the Cardiff Rural District Council and the Cowbridge Rural District Council.

Section I - Staff

No change.

Section II - Amount of shipping entering the district during the year

Table B

Ships from	Number	Tonnage	Number Inspected		Number of ships reported as having, or having had during the voyage infectious disease on board
			By the Medical Officer of Health	By the Public Health Inspector	
Foreign Ports....	219	453,070	4	221	---
Coastwise...	940	507,359	-	330	---
Total.....	1,159	960,429	4	551	---

In addition, the Port Health Department dealt with various matters, including pratique, for some forty vessels situated in the Barry Roads during their voyage to up-Channel ports.

Section III - Character of shipping and trade during the year

Table C

PASSENGER TRAFFIC -

Number of passengers INWARDS	669	} see observations following
Number of Passengers OUTWARDS	611	

CARGO TRAFFIC

Principal IMPORTS Petroleum;
Fruit and Vegetables.

Principal EXPORTS Petroleum;
Coal and Coke.

SECTION III (Cont.)

TABLE C (Cont.)

PRINCIPAL PORTS from which ships arrive :-

Home Ports

United Kingdom..... Belfast, Bristol Channel Ports, Grangemouth,
Liverpool, London, Manchester, Plymouth,
Southampton, Tyne Ports.

Eire..... Cork, Dublin, Limerick, Waterford.

Foreign Ports

BELGIUM..... Antwerp, Zeebrugge.

FINLAND..... Yxpila.

FRANCE..... Channel Ports.

NETHERLANDS..... Rotterdam.

PORTUGAL..... Leixoes.

RUSSIA..... Ventspils.

SCANDANAVIA..... Various.

SPAIN..... Santander.

U.S.A. Lake Charles.

WINDWARD ISLES..... Various.

Observations on Table C

Passenger Traffic - The foregoing figures have been provided through the courtesy of Mr. F.A.G. Harding, H.M. Immigration Officer, Barry, and are further sub-divided, viz:-

Passengers Landed	Aliens	102	British	525	Commonwealth	42
Passengers Embarked.....	Aliens	73	British	476	Commonwealth	62

SECTION III (Cont.)Observations on Table C. (Cont.)

Cargo Traffic - The details set out in Table C in respect of Cargo Traffic, etc. have been extracted from the following figures kindly produced by the Docks Manager, Barry Docks (British Transport Docks Board - South Wales Docks).

INWARD CARGO

<u>FOOD</u>	<u>1972</u>	<u>1971</u>
	<u>Tons</u>	<u>Tons</u>
Cereals (inc. Flour)	71,246	71,639
Fruit and Vegetables.....	130,994	112,430
Other Foodstuffs.....	177	120
Animal Feeding.....	515	--
<u>BASIC MATERIALS</u>		
Timber (inc. Pitwood)	24,446	20,577
Iron Ore.....	8,632	106,971
Building Materials and Crude Minerals.....	--	4,475
Woodpulp and Waste Paper.....	--	2,023
Scrap Metal.....	--	12,865
Other Basic Materials.....	5,715	4,793
<u>FUEL, ETC</u>		
Coal and Coke.....	28,074	94,747
Petroleum (inc. Products).....	226,873	225,549
<u>MANUFACTURED GOODS</u>		
Iron and Steel (inc. Tinplate).....	24,221	6,259
Metal Manufact. (inc. Non-ferrous Metals)...	9,628	1,322
Machinery and Vehicles.....	496	663
Chemicals and Fertilizers.....	72,819	130,716
Other Manufactured Goods.....	1,935	286
<u>MISCELLANEOUS</u>	398	129
 TOTAL INWARD CARGO	 606,169	 795,564

Cargo Traffic (Cont.)OUTWARD CARGOFOOD

	<u>1972</u>	<u>1971</u>
	<u>Tons</u>	<u>Tons</u>
Cereals (inc. Flour)	133	75
Other Foodstuffs	80,037	20,872

FUEL, ETC.

Coal and Coke	133,921	196,470
Petroleum (inc. Products)	177,055	118,696

MANUFACTURED GOODS

Chemicals and Fertilizers	15,350	6,263
Constructional Materials (inc. Cement)	223	23
Iron and Steel (inc. Tinplate)	7,429	7,889
Metal Manufact. (inc. Non-ferrous Metals)	6,527	5,706
Machinery	1,547	1,922
Vehicles	3,119	4,142
Textile Yarns and Fabrics	471	478
Wood, Cork, Paper and Paperboard	895	4,170
Other Manufactured Goods	7,362	5,508

BASIC MATERIALS

Scrap Metal	31,299	37,830
Building Materials and Crude Minerals	4,114	7,154
Other Basic Materials	4,072	3,343

MISCELLANEOUS

.....	529	88
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TOTAL OUTWARD CARGO	<u>474,083</u>	<u>420,629</u>
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TOTAL CARGO (Inward and Outward)	1,080,252	1,216,193
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TOTAL TONNAGE OF TRAFFIC OTHER THAN CARGO ...	89,489	77,991
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TOTAL TRAFFIC	1,169,741	1,294,184
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SECTION IV - Inland Barge Traffic

Not applicable to the Port of Barry.

SECTION V - Water supply

(1) Source of supply for (a) the district, and (b) shipping -

(a) The District - The Port Health District is supplied with drinking water by Cardiff Corporation Waterworks.

(b) Shipping - The same supply as in (a) is used.

(2) Reports of tests for contamination for (a) the District and (b) shipping -

(a) The District - 36 samples were taken and 9 proved unsatisfactory. Most of these were checks at hydrants used for ships' water supplies. The Cardiff Water Board was informed of the situation and dealt with the malfunction of the chlorinating plant at the storage reservoir.

(b) Shipping -

	No. of ships involved	No. of samples taken	No. satisfactory	No. unsatisfactory	TOTAL
Distribution aboard ships....	29	29	22	7	29
Storage aboard ships	1	1	-	1	1

The unsatisfactory results were mainly due to the problems mentioned in (a) above. Two of the vessels were advised to empty and cleanse fresh water tanks whilst the remainder chlorinated all drinking water tanks.

(3) Precautions taken against contamination of hydrants and hosepipes -

The hydrants on the dockside are enclosed and capped. Hydrants and hosepipes are flushed through before use. Constant checks are continuing on hydrants and any decrease in the free chlorine content is immediately reported to the Cardiff Water Authority.

(4) Number and sanitary condition of water boats, and powers of control
by the Authority -

There are no water boats in use in the Port.

SECTION VI - Public Health (Ships) Regulations, 1970.

No change.

SECTION VII - Smallpox

(1) Name of Isolation Hospital to which smallpox cases are sent from the district.

St. Mary's Hospital, Penarth.

(2) Arrangements for transport of such cases to that hospital by ambulance giving the name of the Authority responsible for the ambulance and vaccinal state of the ambulance crews.

The responsible Authority for the ambulance service is the Glamorgan County Council.

Arrangements have been made by this Authority for the conveyance of all cases or suspected cases of smallpox to be undertaken only by personnel of the Ambulance Control Station, Hawthorn, Pontypridd, who have volunteered to do this work.

In instances where the smallpox consultant for the area has advised removal of a case, application for transport would be made to the Pontypridd Control for action.

Precautions will be taken to ensure that the drivers likely to be engaged on these duties are regularly vaccinated and that vaccination will be offered to all members of their families. Whilst engaged on these duties, the personnel will wear suitable protective clothing which will be stored at the Ambulance Control station.

During the emergency, ambulance vehicles will be selected for the conveyance of smallpox cases and will be reserved entirely for this work.

3) Names of smallpox consultants available.

Dr.E.Waddington,
Pembroke House,
St. Winifrede's Hospital,
Romilly Crescent,
CARDIFF.

CF1- 9YP

(Tel. No. Cardiff 23534/5)

(Private Address, etc.)

"Madingley",
12, Ty-Gwyn Road,
Penylan,
CARDIFF.

CF4 6NF

(Tel. No. Cardiff 35123)

SECTION VII - Smallpox. (Cont.)

(3) Names of smallpox consultants available. (Cont.)

Dr.M.S.Pathy,
St. David's Hospital,
CARDIFF.
CF1 9TZ

(Tel. No. Cardiff 44141)

(Private Address, etc.)

Mathern Lodge,
Cefn Coed Crescent,
Cyncoed,
CARDIFF.
CF2 6AT

(Tel. No. Cardiff 755476)

Dr.F.J.Doherty,
Aberaman-Uchaf,
ABERDARE, Glam.

(Tel. No. Aberdare 2705)

(4) Facilities for laboratory diagnosis of smallpox.

The Public Health Laboratory Service, University Hospital of Wales, Heath Park, Cardiff, CF4 4XW, is available for the diagnosis of any suspected case.

SECTION VIII - Venereal Disease.

The Venereal Diseases Clinic previously held twice a week at the Public Health Department, Woodlands House, Woodlands Road, Barry, was permanently closed on 1st. August, 1972.

This Service is now provided at Cardiff Royal Infirmary (Annexe - Moira Terrace), Cardiff.

SECTION IX - Cases of notifiable and other infectious diseases on ships

TABLE D

Category	Disease	Number of cases during the year		Number of ships concerned
		Passengers	Crew	
Cases landed from ships from foreign ports.....	-	-	-	-
Cases which have occurred on ships from foreign ports but have been disposed of before arrival	-	-	-	-
Cases landed from other ships	-	-	-	-

SECTION X - Observations on the occurrence of malaria in ships

No cases were reported on ships entering the Port during the Year.

SECTION XI - Measures taken against ships infected with or suspected for plague

During the Year, no "infected" or "suspected" ships arrived in the Port.

Vessels arriving from plague infected ports or from areas believed to be infected would be inspected on arrival by the Port Medical Officer. Such vessels would be thoroughly searched for rat evidence. Any rats found would be submitted to the Public Health Laboratory Service for bacteriological examination.

SECTION XII - Measures against rodents in ships from foreign ports

(1) Procedure for inspection of ships for rats.

Vessels are inspected by a Public Health Inspector as soon as possible after docking. The Deratting or Deratting Exemption Certificate is examined and an overall inspection for rat traces made of the ship. When such traces are found, the measures as set out in the Public Health (Ships) Regulations are undertaken.

(2) Arrangements for the bacteriological or pathological examination of rodents, with special reference to rodent plague, including the number of rodents sent for examination during the year.

These examinations are carried out by the Public Health Laboratory Service, University Hospital of Wales, Heath Park, Cardiff. CF4 4XW

No specimens were submitted during the Year.

(3) Arrangements in the district for deratting ships, the methods used, and, if done by a commercial contractor, the name of the contractor.

Fumigation of vessels in the district is undertaken by commercial contractors. Notification is received from the contractors as to the date and time when the fumigation will take place; a Public Health Inspector attends the fumigation and ensures strict compliance with the Regulations.

One fumigation (Methyl Bromide) was undertaken during the Year. The work was carried out by Rentokil, Ltd., Pest Control Division, 54, Baldwin Street, Bristol, BS1 1QU.

(4) Progress in the rat-proofing of ships.

Modern vessels are designed to provide an almost complete measure of rat-proofing.

SECTION XII - Measures against rodents in ships from foreign ports (Cont.)

TABLE E

Rodents destroyed during the year in ships from foreign ports

Category	Number
Black rats	5
Brown rats	-
Species not known	-
Sent for examination	-
Infected with plague	-

TABLE F

Deratting Certificates and Deratting Exemption Certificates issued during the year for ships on arrival from foreign ports

No. of Deratting Certificates issued					Number of Deratting Exemption Certificates issued	Total Certif- icates issued
After fumigation with		After trapping	After pois- oning *	Total		
HCN	Methyl Bromide					
1	2	3	4	5	6	7
-	1	-	-	1	49	50

* State poisons used and number of Certificates issued after each poison.

SECTION XIII - Inspection of ships for nuisances

TABLE G
Inspections and Notices

Nature and number of Inspections	Notices served		Result of serving Notices
	Statutory Notices	Other Notices	
Defects of original construction.....)	Nil	Nil	-
Structural defects through wear and tear..)	Nil	6	6 complied with
Dirt and other conditions prejudicial to health.....)	Nil	15	15 complied with
Verminous conditions...)	Nil	2	2 complied with
Total..... 551	Nil	23	23 complied with

SECTION XIV - Public Health (Shell-fish) Regulations 1934 and 1948

No change.

SECTION XV - Medical Inspection of Aliens and Commonwealth Immigrants

(applicable only to ports approved for the landing of aliens and Commonwealth Immigrants)

Barry is not an approved port for these purposes but the Port Medical Officer (Dr. Mary Lennox) and Deputy Port Medical Officer (Dr.M.Prosser) hold Certificates of Appointment as Medical Inspectors for the purposes of the Immigration Act, 1971.

SECTION XVI - Miscellaneous

Arrangements for the burial on shore of persons who have died on board ship from infectious disease

No change.

OTHER MATTERS

RODENT CONTROL

- (a) Prevention of Damage by Pests (Application to Shipping) Order, 1951 and (Amendment No. 2) Order, 1956.

No Rodent Control Certificates were issued during the Year.

- (b) Rats Destroyed - In Docks, Quays, Wharves and Warehouses.

	<u>Black</u>	<u>Brown</u>
By Rodent Operator employed by British Transport Docks Board (South Wales Docks).....	Nil	50
By Port Health Authority's Pest Officer.....	Nil	Nil

FOOD INSPECTION

During the Year the following imported foodstuffs were found unfit for human consumption -

Aubergines.....	24 cases.
Carrots.....	1,001 lbs.
Cherries (French)	1,001 lbs.
Cucumbers.....	1,476
Ducks.....	36
Ducklings.....	100 cartons.
Egg Plant.....	320 lbs.
Lettuce.....	100 cartons.
Lettuce.....	4,080
Peaches.....	2,736
Peppers.....	288 lbs.
Pineapples.....	343 cases.
Plantains.....	776 lbs.
Tannias.....	150 lbs.

Food and Drugs Act, 1955. Imported Food Regulations, 1968.

During the Year two cases of Soft Drinks (Carbonated Water) were re-exported as they did not conform with (a) The Soft Drinks Regulations, 1964, and (b) The Labelling of Food Order, 1953.

Dangerous Drugs Regulations

No Certificates were issued under these Regulations during the Year.

The Dark Smoke (Permitted Periods) (Vessels) Regulations, 1958

Masters of all vessels entering the Port are made aware of the requirements of the Regulations and every effort is made to ensure that emission of black/dark smoke from vessels is kept to a minimum.

During the Year one vessel was observed emitting dark smoke. The matter was dealt with verbally.

Conclusion

I should like to express my sincere thanks to the Members and other Chief Officers of the Corporation for their continued support and consideration and to the Staffs of the Public Health and Port Health Departments for the efficient and loyal service rendered by them during the Year under review.

I would record my appreciation of the co-operation shown by all the health and social service authorities operating in the Borough.

My thanks are also tendered to the Officers of H.M.Customs, H.M.Immigration Officers, Officials of the British Transport Docks Board (South Wales Docks) and the Channel Pilots for their ready co-operation in the maintenance of public health and prevention of disease in the Port.

I am,

Your obedient servant,

MARY LENNOX

Medical Officer of Health.
Port Medical Officer.

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